

# Fedora Setup Instructions On VirtualBox

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## Abstract

This set of instructions is intended to provide a step-by-step guide to install Fedora on a VirtualBox. At the time of writing I recommend Fedora 21 as the best flavor of Linux to install. Other acceptable flavors include Ubuntu and RedHat. Our goal for astronomy use is to install a full suite of astronomy applications using Ureka to obtain a sizable amount to begin with. Check the Ureka webpage<sup>1</sup> to see what operating systems and versions have been successfully tested with Ureka. It is strongly encouraged that a recent and full backup of the computer system for which the installation will be conducted on is available and has been inspected.

This check list, and other similar instructions are available for download from the NCAT webpage at [mintaka.sdsu.edu/faculty/chorst/NCAT.html](http://mintaka.sdsu.edu/faculty/chorst/NCAT.html).

## 1 Which Processor Do You Have?

i686 code is intended to be executed on processors which are compatible with the 32 bit Intel x86 platform, which includes all Intel 32bit x86 processors up to and including the Pentium 4, etc. as well as processors from AMD and other vendors which make compatible 32bit chips.

x86\_64 code is intended to be executed on processors which are compatible with the AMD64 64bit platform, including the AMD Athlon 64, AMD Opteron and related AMD chip families, and the Intel EM64T based processors.

These 64bit processors are fully backward compatible with their 32bit predecessors. So if you have a 64bit AMD Athlon 64 or Intel EM64T processor, it is up to you whether to install the 64bit x86\_64 OS or the 32bit i386/i686 OS.

- Find which chip is installed **Rt-Click Computer / Properties**

## 2 Download A Disc Image Of Fedora

It is best practice to download very large files with BitTorrent. BitTorrent is a peer-to-peer file sharing. To use BitTorrent you must have a BitTorrent client. Just download BitTorrent from [www.bittorrent.com](http://www.bittorrent.com). Make a note of the file name and the download location.

- Download disc image  
Example: Download Fedora-Live-Workstation-x86\_64-21.torrent **<https://torrents.fedoraproject.org>**
- Choose torrent from download
- Open **torch://torrent/**

## 3 Open VirtualBox

- dbl-click the VirtualBox icon**

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<sup>1</sup>[ssb.stsci.edu/ureka](http://ssb.stsci.edu/ureka) and navigate to the Ureka-core-binaries

Note for interpreting this check sheet: **BOLD** text denotes an action or location such as a choose a radio button or look in a window. A forward slash "/" separates choices. Items underlined are to be typed in. Items both underlined and in *italic* are to be typed in, however the actual values will differ.

Please contact Chuck Horst at [jhorst@mail.sdsu.edu](mailto:jhorst@mail.sdsu.edu) with any errors, omissions, clarifications, or suggestions.

## 4 Create A Virtual Machine

- Click **New** *blue star*
- Name: ***Fedora-21*** / **NEXT**
- Ram: Set to be 1/2 of available. Hopefully a minimum of 2GB.
- (.) Create a virtual hard disk now / **CREATE** / (.) VDI / **NEXT** / (.) Dynamically allocate / **NEXT** / ***~20GB*** hard drive / **CREATE**  
*A minimum of 20GB is recommended. Again choose 1/2 of your existing hard drive if possible.*

## 5 Load The Disk Image

- SETTINGS** / **STORAGE** / **Controller:IDE** / **EMPTY**
- Attributes** / **Optical Drive** / **CD ICON** / **Virtual Optical Disk File**
- Navigate to locate the download Ex: ***Fedora-Server-DVD-x86\_64-21.iso***
- OPEN** / **OK**

## 6 Start The Virtual Machine

- START** (green arrow)
- INSTALLATION** (use down arrow to select) / **ENTER** / **ACCEPT**
- Select **Add online repositories before installation** / do not select **Include add-on products from separate** / **NEXT**
- Pick time zone** (click on map) / **NEXT** / **NEXT** / **NEXT**
- (.) **KDE Desktop** / **NEXT**
- Enter name and password. Write them down to remember.
- SOFTWARE** click on “software” then make selections:  
**LXDE Desktop Env, XFCE Desktop Env, Console Tools, Base Development**  
Retain any automatically selected choices.
- OK** / **INSTALL** / **INSTALL**
- Install updates

## 7 Install Guest Additions

This section has yet to be written.